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IMB Series Programming Device PGM-IMB



USER MANUAL

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This operation manual contains information concerning the application, design, operation, technical specifications of the PGM-IMB device, as well as installation and maintenance instructions necessary for the most effective usage of its technical potential.

Attention!

1. We always work on improving our equipment, therefore changes may be made at any time, which will not affect normal operation of the equipment.

1. Description and technical specifications

1.1 The PGM-IMB device is used to control and fine tune most of the IMB series of detectors (IMB-150RD, IMB-800, IMB-100 and etc).

1.2 The device allows to control detectors and change parameters in the following modes of operation:

Display status

Selection of detection distance and threshold

Frequency adjustment

Device calibration

Selection of bottom detection speed threshold

Selection of top detection speed threshold

Control signal gain

1.3 The device draws power directly from the detector.

1.4 The device is connected to the detector either through an onboard jack, or through a jack in the distribution box (e.g. IMB-150RD), using the enclosed cable.

1.5 The device is able to function outdoor in temperatures ranging from – 20 to 50°C (-4° to +122°F) and relative air humidity of 95% at 25°C.

1.6 The size of the device is 115x65x40mm (4.5"x2.5"x1.6") and the weight (without cable) is 100gr (0.21lbs).

The PGM reads current signal values from the processor onboard the receiver of most IMB series and allows recording new values.

The signals are shown using an LCD display.

3 buttons are used to control the device:

- **"P"** – changes modes


-  – less

-  – more

1.7 In order to use the device, it must be connected to an IMB series detector, using the supplied cable. The LCD screen on the device should read "IMB-xxx Tester".

In order to select a mode, you must press the **"P"** button – this is when the **"Indic"** message should appear on the LCD screen, meaning you are able to select the **"Indication"** mode, which is the first one in the menu.

Use the directional buttons to select the required mode.

An ability to enter a mode is confirmed by displaying the  sign in the lower left corner of the LCD. If the **"P"** button is pushed a second time, the chosen mode will be entered.

1.8. The **"Indication"** mode allows to see the following detector conditions:

"Pow" – power level drop below acceptable levels

"A!" – alarm

"LL" – low level block activation

"LP" – mid level block activation

"HL" – high level block activation

1.9 The “**Selection of detection distance and threshold**” mode (“**Method**” on the PGM-IMB) has two options:

“**Auto**” for automatic device operation

“**Manual**” for manual adjustments

The correct option can be selected using the directional keys. In order to exit the mode and save changes in this or any other modes the “**P**” button must be pressed. The process of saving changes is indicated by a flashing rectangle in the lower right corner of the LCD.

Note – when the “**Auto**” option is selected, you can only see indication of the set parameters – you cannot actually change them. In the “**Manual**” option you can change parameters.

1.10 The frequency adjustment mode “**Mod Freq**” has two options:

“**Main**” for the main frequency value

“**Altern**” for an alternative frequency value in case of interference

Important If you change the frequency value on the receiver, you must change the frequency of the transmitter. In order to do so, you must connect the wire marked “**F**” to the ground wire (in case of an older series detector) or put a jumper on the “**F**” selector inside the casing. You will determine which detector you have (newer or older) simply by the presence of wires – our new detectors don’t have any wires and come with terminal blocks.

1.11 In the “**Tuning**” mode, you can see the level of received signal in decibels (from 2 to 70). For convenience the signal is partially displayed (up to 20dB) using an indicator. The starting point of the indicator changes automatically during the tuning process. This mode may have the following messages:

↓Range↑ - the signal level is out of the working range.

If a signal value is blinking, this means the maximum value was reached (if external conditions change, problems may occur)

The maximum tuning mode usage time is 5 minutes. When this time elapses, the device will automatically quit this mode. In order to re-enter this mode, you must use the “**P**” button again. In this mode and when you leave and enter the mode, data is being written to the non-volatile memory of the receiver – this is indicated by a flashing rectangle, in the lower right corner of the LCD.

1.12 The minimum detection speed of crossing the protected zone threshold selection mode (“**Min speed**”) has three options:

“0.1 m/s”

“0.2 m/s”

“0.4 m/s”

1.13 The maximum detection speed of crossing the protected zone threshold selection mode (“**Max speed**”) has three options:

“4 m/s”

“6 m/s”

“10 m/s”

1.14 The distance control and adjustment mode “**Dist contr**” is applicable **ONLY** to the IMB-150RD and IMB-800 detectors. On all others you will be able to see this mode, however you will **NOT** be able to make any changes. Also, the distance indicated on any of the non-supported detectors is **NOT CORRECT** – it will always read “150-200m”

The IMB-150RD will have the values of “10-20m”, “20-40m”, “40-75m”, or “75-150m”.

The IMB-800 will have the values of “60-100m”, “100-200m”, “200-400m” or “400-800m”.

If a signal value is blinking, this means the maximum value was reached (if external conditions change, problems may occur)

1.15 The lower gain level control and adjustment mode (“**Level L**”) has 6 values – “-1dB”, “-2dB”, “-3dB”, “-4dB”, “-5dB”, “-6dB”.

- 1.16 The upper gain level control and adjustment mode (“**Level P**”) has 4 values – “+1dB”, “+2dB”, “+3dB”, “+4dB”.

Note – In the lower and upper gain level control and adjustment mode, a scale is displayed where the gain value is indicated by #, the signal level by ↓ and block activation is indicated by *, in the lower right corner of the LCD.

2. Packaging

Your package should include the detector, this user manual, and a connector cable.

3. Device lifetime and storage

The MTTF of the device is approximately 8 years.

The PGM-IMB may be stored in it's original packaging, in storage facilities with the air temperature from +5 up to +40°C and relative humidity not exceeding 80%.

Warranty Information / Terms & Conditions

LIMITED WARRANTY

STR hereby warrants, subject to the conditions here in below, that should this product become defective by reason of improper workmanship or material defect during the specified warranty period, STR will repair the same, effecting all necessary parts without charge for either parts or labor, or replace the unit at STR's discretion.

Labor: ONE (1) Year from the date of original purchase from authorized Re-seller unless otherwise specified.

Parts: ONE (1) Year from the date of original purchase from authorized Re-seller unless otherwise specified.

Void Warranty

Purchaser warranty will be void and purchaser waves any rights to make warranty claim if product has been opened, altered or modified, repaired or serviced by anyone, other than the service facilities authorized by STR to render such services. Further, the seal/serial number on the unit must not have been altered or removed. The unit must not have been subject to accident, misuse, and abuse or operated contrary to the instructions provided.

The opinion of STR with respect to this matter shall be final. This warranty does not include and is not extended to broken and damaged accessories, batteries and to parts wearing out due to normal wear and tear.

Proper Delivery:

Returned products will not be accepted for warranty repair unless accompanied with a valid Return Merchandise Authorization (RMA) number issued by STR. RMA numbers issued by STR are valid for 15 days. Shipments received after 15 days will be refused. The unit must be shipped, freight prepaid or delivered to the STR service facility, in either its original package or similar package, affording an equal degree of protection and with instructions indicating the location within Canada or the United States to which the unit will be returned. The repaired unit will be returned to the customer freight prepaid unless the warranty claim is deemed void or invalid. All accessories included with the unit must be listed individually on the packing slip for the shipping documentation. STR will not accept any liability, for loss or damage to such accessories if they are not listed.

Proof of Purchase Date:

This warranty applies and commences to STR products, from the original date of purchase from an Authorized Re-seller. Proof of purchase (i.e.: photocopy of invoice), must be included with product when submitting for warranty repair.

Warranty Limitations:

This warranty does not cover maintenance or check-ups, if required. This warranty gives you specific legal rights and you may also have other rights, which vary from state/province to state/province. Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, therefore the above exclusions or limitations may not apply to you. STR is not responsible or liable for indirect, special, incidental or consequential damages arising out of or in connection with, the use or performance of the product or other damages with respect to loss of property, loss of revenues or profit, or cost of removal, installation or reinstallation.

PRODUCT RETURNS

30 Day Product Return Policy ** If you are not satisfied with a product, you may return it to STR within 30 days from original date of shipment within the following conditions:

- Original shipping charges are not refundable unless deemed that STR shipped incorrect item(s), incorrect quantity (ies) or original manufacturers defective product (subject to STR validation).
- Returned products will not be accepted unless accompanied with a valid Return Merchandise Authorization number (RMA).
- RMA numbers issued by STR are valid for 15 days. Shipments received after 15 days will be refused.
- Returns must include a copy of original invoice, the completed STR packing slip, and a detailed statement of reason for return.
- Customer is responsible for all freight charges, duties and taxes, if applicable. Product must be properly packaged and shipped, Prepaid to STR in its original packaging, or similar packaging that offers an equal degree of protection. STR will charge the full replacement cost for any missing components or parts. STR is not responsible for lost or damaged merchandise. We strongly recommend insuring products for return shipping.
- Return claims are void if manufacturer's seal is broken and/or products are altered or modified, subjected to an accident, improper handling, improper installation, misuse and abuse or operated contrary to the operating instructions. Products returned that are not in "re-saleable" condition will be returned to customer at their expense.
- Discontinued items, special or custom-made equipment items (items not carried as stock even though they may appear on price lists) may not be returned. Returned products will be evaluated at the original purchase price and not at any subsequent price increase or decrease.

** Subject to the conditions stated above, the following re-stocking fees will apply to products returned for credit/refund.

STR reserves the right to determine the validity of the product returned and / or refuse to accept product for credit.

0 % Re-Stocking Fee (less original shipping charges): If product is returned within 30 days from original STR ship date.

25% Re-Stocking Fee (less original shipping charges): If product is returned within 60 days from original STR ship date.

50% Re-Stocking Fee (less original shipping charges): If product is returned within 90 days from original STR ship date.

100% Re-Stocking Fee (0% credit) : If product is returned after 90 days from original STR ship date.

DISCLAIMER

In no event will STR or any of its affiliates be liable for any indirect, special, punitive, consequential liability, or incidental damages upon any basis of liability whatsoever even if advised of the possibility of such damages. In addition, STR does not take any responsibility or assume any liability for the wiring, installation or placement of the equipment Customer purchases, or for the activities of any other individual or entity such as Customer's Company, those who prepare the specifications or any local Authorities who inspect or approve Customer's installation.

PRIVACY POLICY

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STR is committed to safeguarding your privacy online. We only use your personal information to service your account, to provide you with the products you inquire about and request, and to inform you of additional products or services that may benefit you.